



confidence value + branch prediction + mcfa


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... A **branch** is considered to have "high **confidence**" only when the MDC has reacheda partic- ular **confidence** threshold **value** referred to as the ...Cited by 261 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)**Confidence estimation for speculation control - group of 17 »**

D Grunwald, A Klauser, S Manne, A Pleszkun - ACM SIGARCH Computer Architecture News, 1998 - portal.acm.org

... **branch**, it does not know if a **branch** will commit or ... when we report the SPEC and PVNfor different **confidence** estimators, we only report these **values** for the ...Cited by 119 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)**Assigning confidence to conditional branch predictions - group of 16 »**

E Jacobsen, E Rotenberg, JE Smith - Proceedings of the 29th annual ACM/IEEE international ... - doi.ieeecomputersociety.org

... **confidence** levels to different counter **values** in predictors ... dif- ferent degrees basedon the **confidence** level ... In [12] the authors use **branch** probability levels ...Cited by 173 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)**Selective value prediction - group of 15 »**

B Calder, G Reinman, DM Tullsen - ACM SIGARCH Computer Architecture News, 1999 - portal.acm.org

... The use of history information, similar to local **branch** his- tories [18, 31], canbe used to provide history **confidence** for **value** prediction, and thus increase ...Cited by 145 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)**Neural Methods for Dynamic Branch Prediction - group of 13 »**

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... tively used before actual **values** are available ... Recent efforts to improve **branch****prediction** focus primarily ... two-level adaptive predictors [McFarling 1993; Lee ...Cited by 55 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)**Accurate indirect branch prediction - group of 14 »**

K Driesen, U Hoelzle - ACM SIGARCH Computer Architecture News, 1998 - doi.ieeecomputersociety.org

... from each target address in the path history, the maximum **value** of b ... In analogy withthe Gshare predictor used in conditional **branch** prediction [CHP95], we can ...Cited by 67 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)**The potential of data value speculation to boost ILP - group of 13 »**

J González, A González - Proceedings of the 12th international conference on ..., 1998 - portal.acm.org

... If the most significant bit of the **confidence** flag is set, then ... figure is not tocompare the performance of **branch** prediction and **value** prediction but to ...Cited by 75 - [Related Articles](#) - [Web Search](#)**Prediction outcome history-based confidence estimation for load value prediction - group of 6 »**

M Burtcher, BG Zorn - Journal of Instruction-Level Parallelism, 1999 - csl.cornell.edu

... for load **value** prediction (Section 5.2). While their goals are similar to ours,the approaches for **branch** **confidence** estimation and load **value** predic- tion ...Cited by 22 - [Related Articles](#) - [View as HTML](#) - [Web Search](#)**Predictor-directed stream buffers - group of 18 »**

T Sherwood, S Sair, B Calder - Proceedings of the 33rd annual ACM/IEEE international ..., 2000 - portal.acm.org

... is accomplished by decoupling the **branch** predictor from the ... store loads that receivetheir **value** forwarded from ... stride, and (4) some **confidence** infor- mation. ...Cited by 54 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)**Dynamic branch prediction with perceptrons - group of 13 »**

DA Jimenez, C Lin - Proceedings of the Seventh International Symposium on High ..., 2001 - doi.ieeeecs.org

... predicted **values** are speculatively used be- fore actual **values** are available [10 ...learning technique can be implemented in hardware to improve **branch** prediction. ...Cited by 83 - [Related Articles](#) - [Web Search](#)

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Checkpoint + confidence value + branch pred



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... call this re-execution overhead the **check- point** overhead (COVHD ... a **checkpoint** is made at low-**confidence** branches, a ... on a re-execution from a **checkpoint**, we use ...

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Threaded multiple path execution - group of 24 »

S Wallace, B Calder, DM Tullsen - ACM SIGARCH Computer Architecture News, 1998 - [doi.ieeeecomputersociety.org](#)

... **Check- point** b6 cannot be forked yet in this example ... pri- mary path starting at that **checkpoint**, or the ... **branch** by ex- amining the **confidence** counter described ...

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L Ceze, K Strauss, J Tuck, J Renau, J Torrellas - Computer Architecture Letters, IEEE, 2004 - [ieeexplore.ieee.org](#)

... We use **value prediction** with **confidence** estimation. Based on the **confidence**, the processor performs different ... only support a single outstanding **checkpoint** at a ...

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Checkpointed early load retirement - group of 2 »

N Kirman, M Kirman, M Chaudhuri, JF Martinez - High-Performance Computer Architecture, 2005. HPCA-11. 11th ..., 2005 - [ieeexplore.ieee.org](#)

... cannot be predicted with high enough **confidence**, a new ... all of them are assigned to the last **check- point**. ... suffering a rollback to that last **checkpoint** may be ...

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Dynamic hammock predication for non-predicated instruction set architectures - group of 17 »

A Klauser, T Austin, D Grunwald, B Calder - Proceedings of the 1998 International Conference on Parallel ..., 1998 - [doi.ieeeecomputersociety.org](#)

... Decode **confidence** mechanism ... with a matching tag and op- posite predicate **value** are marked ... predication state is cleared when a speculation **checkpoint** is restored ...

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Prophet/Critic Hybrid Branch Prediction - group of 14 »

A Falcon, J Stark, A Ramirez, K Lai, M Valero - [ieeexplore.ieee.org](#)

... this paper, they use one future bit to get a more ac- curate **confidence** estimation ... The tag for the partic- ular **branch** address and BOR **value** combination is ...

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Perceptron-Based Branch Confidence Estimation - group of 7 »

H Akkary, ST Srinivasan, R Koltur, Y Patil, W ... - High Performance Computer Architecture, 2004. HPCA-10. ..., 2004 - [ieeexplore.ieee.org](#)

... a perceptron **branch predictor** could assign a **confidence** level to its **prediction** since the perceptron output is multi-valued and not just a Boolean **value**. ...

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TF Wenisch, RE Wunderlich, B Falsafi, JC Hoe - Proceedings of the 2005 ACM SIGMETRICS international ..., 2005 - [portal.acm.org](#)

... our checkpoints to store only the **values** accessed by ... **branch predictor**, we reduce total **checkpoint** size to ... designed to achieve precisely 99.7% **confidence** of ± 3 ...

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Checkpoint processing and recovery: an efficient, scalable alternative to reorder buffers - group of 5 »

H Akkary, R Rajwar, ST Srinivasan - Micro, IEEE, 2003 - [ieeexplore.ieee.org](#)

... available, it ignores the low-**confidence** **prediction** of the ... CPR reclaims the oldest **check- point** when its associated ... of zero, and the next **checkpoint** has been ...

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Piecewise Linear Branch Prediction - group of 7 »

DA Jimenez - Proceedings of the 32nd Annual International Symposium on ..., 2005 - [portal.acm.org](#)

... adapt the perceptron **predictor** to provide **confidence** estimates for ... With a **value** of $n = 8$ suitable for ahead ... would not work under our **checkpoint**-based simulation ...

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branch prediction + mcfarling

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PY Chang, E Hao, YN Patt - Microarchitecture, 1995. Proceedings of the 28th Annual ... - ieeexplore.ieee.org

... hybrid pre- dictor's **prediction**. **McFarling** proposed implementing the selection mechanism as an array of 2-bit coun- ters. Each static **branch** was associated a ...[Cited by 90](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)**Branch classification: a new mechanism for improving branch predictor performance - group of 12 »**

PY Chang, E Hao, TY Yeh, Y Patt - Proceedings of the 27th annual international symposium on ..., 1994 - portal.acm.org

... To further improve **prediction** accuracy, **McFarling** [6] proposed a new technique that combines two **branch** predictors. His technique uses 2-bit up-down counters ...[Cited by 107](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)**Pipeline Gating: Speculation Control for Energy Reduction - group of 22 »****S Manne**, A Klauser, D Grunwald - Proceedings of the 25th annual international symposium on ..., 1998 - doi.ieeecs.org... In both the Gshare and **McFarling** pre- dictors, the **branch prediction** counters are updated at commit, and both predictors speculatively update the global ...[Cited by 261](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)**A comparative analysis of schemes for correlated branch prediction - group of 19 »****C Young**, N Gloy, MD Smith - Computer Architecture, 1995. Proceedings. 22nd Annual ..., 1995 - ieeexplore.ieee.org... In particular, **McFarling** [9] noticed significant redundancy in the two-level index of the correlation-based **branch prediction** scheme proposed by Pan, Si), and ...[Cited by 117](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)**Neural Methods for Dynamic Branch Prediction - group of 13 »**

DA JIMENEZ, C LIN - ACM Transactions on Computer Systems, 2002 - portal.acm.org

... Recent efforts to improve **branch prediction** focus primarily on eliminating aliasing in two-level adaptive predictors [**McFarling** 1993; Lee et al. ...[Cited by 55](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)**[PS] Using hybrid branch predictors to improve branch prediction accuracy in the presence of context ... - group of 5 »****M Evers**, PY Chang, YN Patt - ACM SIGARCH Computer Architecture News, 1996 - eecs.umich.edu... pro- posed a hybrid **branch predictor** which uses the prole- guided **predictor** for branches that are mostly-taken or mostly-not-taken and **McFarling's** hybrid ...[Cited by 98](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#)

